Aim

To create a Python program that reads axis values from a text file and draws a line plot with labeled axes and a title.

Algorithm

1. Import required libraries (matplotlib.pyplot)
2. Open and read the data from the text file
3. Parse the data into x and y lists
4. Create a line plot using matplotlib
5. Add labels to x-axis, y-axis, and set a title
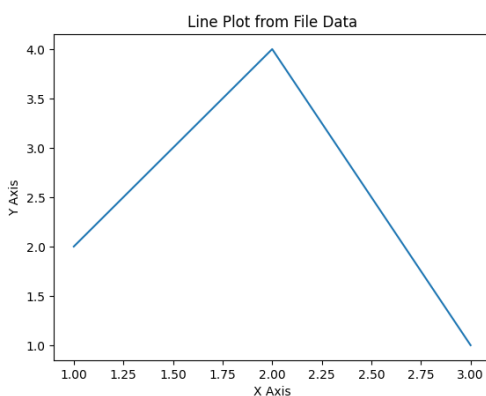6. Display the plot

Code

```python
import matplotlib.pyplot as plt

x = []
y = []

with open('test.txt', 'r') as file:
    for line in file:
        values = line.strip().split()
        x.append(float(values[0]))
        y.append(float(values[1]))

plt.plot(x, y)
plt.xlabel('X Axis')
plt.ylabel('Y Axis')
plt.title('Line Plot from File Data')
plt.show()
```

Output

Result

The program successfully reads data from a file, creates a line plot with labeled axes and a title using matplotlib.